PATENT COOPERATION TREATY

PCT/EP2004/006320

		From the INTERNATIONAL BUREAU		
9: 1 .ngu	PCT NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER 1 OR CHAPTER 1) OF THE PATENT COOPERATION TREATY) (PCT Rubs 44bis.3c) and 72.2) Date of mailing (day/manth/) ear) 11 May 2006 (11.05.2006)	DEY, Michael Welckmann & Welckmann & Weickmann Postfach 860 820 81635 München ALLEMAGNE Parentanwäite 1 9. MAI 2006 Frist:		
	Applicant's or agent's file reference 33132P WO	IMPORTANT NOTIFICATION		
	International application No. PCT/EP2004/006320	International filing date (day/month/year) 11 June 2004 (11.06.2004)		
	Applicani MEDICAL ENZ	YMES AG et al		
	1. Transmittal of the translation to the applicant. The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I). The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II). 2. Transmittal of the copy of the translation to the designated or elected Offices. The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation: None The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of the translation from the International Bureau only upon their request: AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, FO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, ZW, ZW, ZW, ZW, ZW, ZW, ZW, ZW, ZW			
3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s). The applicant is reminded that, where a translation of the international application must be furnished to an elected Office must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).				
9. 	The second secon			
	The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Ellen Moyse		
	Facsimile No.+41 22 740 14 35	Foograpile No. 141 00 220 00 gs		

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 33132P WO	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/EP2004/006320	International filing date (day/month/year) 11 June 2004 (11.06.2004)	Priority date (day/month/year) 11 June 2003 (11.06.2003)	iority date (day/nontl/year)
International Patent Classification (8t See relevant Information in Form I	h edition unless older edition indicated) PCT/ISA/237		
Applicant MEDICAL ENZYMES AG			

1.	 This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a). 				
2.	2. This REPORT consists of a total of 6 sheets, including this cover sheet. In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	Chapter 1) instead.				
	6	Box No. I Basis of the report			
1	Box No. II Priority				
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention				
	Box No		ment under Article 35(2) with regard to novelty, inventive step or industrial itations and explanations supporting such statement		
	Box No.		Certain documents cited Certain defects in the international application Certain observations on the international application		
	Box No.	. VII Certain defects			
	Box No.	. VIII Certain observa			
4.	 The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2). 				
			Dute of issuance of this report 01 May 2006 (01.05.2006)		
	The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland		Authorized officer Ellen Moyse		
Pacsimile No. +41 22 740 14 35 Telephone No. +41 22 338 89 75			Telephone No. +41 22 338 89 75		
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	rom the International Searching authority		Tay,		
	Te:			PCT	Anglation
•			WI INTERNAT	ritten opinion of thi ional searching aut	2
				(PCT Rule 43bis.1)	
• • • • • • • • • • • • • • • • • • • •			Date of mailing (day/month/year)		
	Applicant's or agent's file reference 33132P WO		FOR FURTHER ACTION See poragraph 2 below		
					·
		lermitional filing date (d	day/month/year)	Priority date (day/month/year)	
	International Patent Classification (IPC) or both ma	tional classification and	I IPC		
	Applican MEDICAL ENZYMES AG				
1. This opinion combine indications relating to the following items: Box No. I Basis of the opinion		to welly, inventive step or industriement I be considered to be a writte ly where the applicant chooses an under Rule 66.1b/s(b) that w the applicant is invited to sub- of 3 months from the date of	n opinion of the in Authority other rition opinions of		
7	3. For further details, see notes to Form PC	[/]S _A √220.			
	Name and malling address of the ISA/BP		Authorized officer	***************************************	
	Pacel mile No.		Telephone No.		

Form PCT/ISA/237 (cover sheet) (January 2004)

	WRITTEN OPINION OF THE	International application No.
	International searching authority	PCT/EP2004/006320
	Box No. J Basts of this upinion	
	 With regard to the language, this opinion has been exablished on the basis of the interfiled, unless otherwise indicated under this item. 	ernational application in the language in which it was
'	This optoton has been established on the basis of a translation from the original	language into the following language
	Rule 12.3 and 23.1(b)).	nished for the purposes of international search (under
	With regard to any nucleolide and/or units acid sequence disclosed in the interior. this opinion has been established on the baris of:	ernational application and necessary to the claimed
	a. Type of matchal	
	a sequence listing	
	Inblc(s) related to the sequence listing	
	b. format of material	
	in written format	
	in computer sendable form	
	c. time of liting/furnishing	
	contained in the international application as filed.	
	filed together with the international application in computer readable form.	;
	furnished subsequently to this Authority for the purposes of search.	
	In addition, in the case that more than one version or copy of a sequence listin furnished, the required statements that the information in the subsequent or addition of the sequence of the	
	- Additional comments:	
	·	
•		
		1

Form PCT/ISA/237 (Box No. I) (January 2004)

	WRITTEN OPINION OF THE	International application No.
	INTERNATIONAL SEARCHING AUTHORITY	PCT/EP2004/006320
•.	Box No. II Priority	
•	1. The following document has not yet been furnished: copy of the earlier application whose priority has been claimed (Rule 43bis.1 and translation of the earlier application whose priority has been claimed (Rule 43bis. Consequently it has not been possible to consider the validity of the priority claim. This the assumption that the relevant date in the claimed priority date. This apinion has been established as if no peterity had been claimed doe to the fact of (Rules 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing relevant date. Additional observations. If necessary:	l and 66.7(b)). opinion has nevertheless been established on
	Additional coastvations. It pecessaty:	

Form PCT/ISA/237 (Box No. II) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		Imerossional application No. PCT/EP2004/006320
Box No. V Reasoned statement under Rule 43bis 1(a)(i) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement		
I. Statement Novelty (N)	Claims 1-9	
Inventive stop (1S)	Claims <u>1-9</u>	YES NO
industriai applicabili	y(1A) Claims 1-9 (see tex	t) YES NO
2. Citations and explanation	15:	
glutam platin When the of drug with the effects B = 305	istic effect exists for inase with antineoplast im complexes. Here is a synergistic engres (A + B) has a superance purely computational of A plus B; e.g. effect, whereas the combination (A + B) yields an effect of the combination (A + B) yie	ic anthracyclines or ffect, the combination dditive effect compared combination of the ect of A = 20% and of ion (the combination
of the is indi	be taken into account data according to the cated therein in %. The gs must therefore be ca	figures that the growth e effect achieved by
2. Hence,	the effects (= growth i	inhibition) of the

Form PCT/ISA/237 (Box No. V) (January 2004)

(fig. 1) as being:

glutaminase (100-21) = 79% mitomycin (100-99) \Rightarrow 1%

drugs emerge for mitomycin and CNS SF-539 cells

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2004/006320

Box No. V Repsoned statement under Rule 43bis 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

total = 80%

(glutaminase + mitomycin) = (100 - 7) = 93%

Comparison of the total (80%) with the actually achieved combination effect (97%) shows that a synergistic effect is present in this case.

The same is true approximately for mitoxanthrone on breast MCF7 cells according to fig. 2 and for cis-platin on MCF7 cells according to fig. 3.

- 3. Since there appears to be no relevant prior art, the subject matter of claims 1-9 is regarded as novel and inventive.
- 4. The description should be made consistent with the claims. Accordingly, only the chemotherapeutic agents mentioned in the claims as agents suitable for combination products should remain in the description. There is no evidence of a synergistic effect for any chemotherapeutic agents other than those mentioned in the claims.
- 5. The PCT Contracting States do not have uniform criteria for assessing the industrial applicability of claim 9 in its present form. Patentability may also depend on the wording of the claims. The EPO, for example, does not recognize the industrial applicability of claims to the medical use of a compound; it may, however, allow claims to the first medical application of a known compound or to the use of such a compound in the manufacture of a drug for a new medical application.

Form PCT/ISA/237 (Box No. V) (January 2004)

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